

2004 IAP

Joliet Army Ammunition Plant

Installation Action Plan



ILLINOIS



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2004 IAP

Joliet Army Ammunition Plant

Joliet, Illinois



Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year restoration program for an installation. The plan will define Installation Restoration Program (IRP) requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each Operable Unit (OU) at the installation and other areas of concern.

In order to facilitate successful program coordination between the IRP manager, U.S. Army Environmental Center (USAEC), executing agencies, regulatory agencies, and the public, Joliet Army Ammunition Plant generates an annual IAP. The IAP is used to track requirements, schedules and budgets for the Joliet AAP restoration program.

All site-specific funding and schedule information has been prepared based upon current program requirements and is, therefore, subject to change. Current project funding projections indicate that all cleanup actions will be implemented or completed at Joliet AAP by the end of 2009.

The following agencies contributed to the formulation and completion of this 2004 Installation Action Plan for Joliet AAP during a planning workshop held on 12 August, 2003:

Engineering and Environment, Inc.

Illinois EPA

Joliet AAP

Joliet AAP RAB

MWH

USDA-FS

USACE - Louisville District

Table of Contents

Summary

<i>Installation Action Plan Summary</i>	<i>1</i>
---	----------

Installation Description

<i>Installation Description</i>	<i>1-2</i>
---------------------------------------	------------

Contamination Assessment

<i>Contamination Assessment Overview</i>	<i>1</i>
<i>Previous Studies</i>	<i>2-3</i>

Site Descriptions

Active Site Descriptions in the Mfg. Area

<i>JAAP-001, Southern Ash Pile</i>	<i>1</i>
<i>JAAP-002, Explosive Burning Grounds</i>	<i>2</i>
<i>JAAP-003, Flashing Grounds</i>	<i>3</i>
<i>JAAP-004, Lead Azide Area</i>	<i>4</i>
<i>JAAP-006, M6 TNT Ditch Complex</i>	<i>5</i>
<i>JAAP-009, Northern Ash Pile</i>	<i>6</i>
<i>JAAP-011, M11 Landfill</i>	<i>7</i>
<i>JAAP-012, Sellite Manufacturing Area</i>	<i>8</i>
<i>JAAP-013, M13 Gravel / Excavation Pits</i>	<i>9</i>
<i>JAAP-GWM, Installation-Wide Gwater Monitoring</i>	<i>10</i>

Active Site Descriptions in the LAP Area

<i>JAAP-0L1, Group 61 TNT - Ridge & Furrow System</i>	<i>12</i>
<i>JAAP-0L2, Explosive Burning Ground</i>	<i>13</i>
<i>JAAP-0L3, Demolition Area</i>	<i>14</i>
<i>JAAP-0L4, Landfill Area</i>	<i>15</i>
<i>JAAP-0L5, Salvage Yard</i>	<i>16</i>
<i>JAAP-0L7, Group 1</i>	<i>17</i>
<i>JAAP-0L8, Group 2</i>	<i>17</i>
<i>JAAP-0L9, Group 3</i>	<i>17</i>
<i>JAAP-L10, Group 3A</i>	<i>17</i>
<i>JAAP-L14, Group 4</i>	<i>18</i>
<i>JAAP-L23, Group 27</i>	<i>19</i>

Military Munition Rule Sites

Response Complete Sites

<i>JAAP-005, M-5 - Tetryl Production Area</i>	<i>1</i>
<i>JAAP-007, M7 - Red Water Area South of TNT Ditch</i>	<i>1</i>
<i>JAAP-008, Acid Manufacturing Area</i>	<i>2</i>
<i>JAAP-010, Toluene Tank Farms (3)</i>	<i>2</i>
<i>JAAP-014, Former Pond Area</i>	<i>3</i>
<i>JAAP-015, Former Sewage Treatment Plant</i>	<i>3</i>

Table of Contents continued on next page

Table of Contents

Response Complete Sites, continued

JAAP-016, Motor Pool Area	4
JAAP-017, Laundry Facility	4
JAAP-018, Herbicide Storage Area	5
JAAP-016, Group 70 - Motor Pool	5
JAAP-L11, Test Site	6
JAAP-L12, Doyle Lake Area	6
JAAP-L13, Group 68	7
JAAP-L15, Group 5	7
JAAP-L16, Group 6	8
JAAP-L17, Group 7	8
JAAP-L18, Group 8	9
JAAP-L19, Group 9	9
JAAP-L20, Group 20	9
JAAP-L21, Sanitary Landfill	10
JAAP-L22, Group 25 Railroad Classification Yard	10
JAAP-L24, Group 29	11
JAAP-L25, Group 62	11
JAAP-L26, Group 63	12
JAAP-L27, Group 64	12
JAAP-L28, Group 65	13
JAAP-L29, RCRA Hazardous Storage (Group 66)	13
JAAP-L30, Group 66A	13
JAAP-L31, Extraction Pits	14
JAAP-L32, Group 60	14
JAAP-L33, PVC Area	15
JAAP-L34, Former Burning Area	15
JAAP-L35, Fill Area	16

Schedule

Past Milestones	1
Projected Milestones	1
No Further Action Sites	2
IAP Schedule Chart	3
AEDBR Phase Summary Report	4
AEDBR IAP Report	5-10

Remediation Activities

Past, Current & Future Removal / Interim Remedial Action / Remedial Action Assessment	1
---	---

Community Involvement

Restoration Advisory Board Status	1
---	---

Acronyms & Abbreviations

ACSIM	Assistant Chief of Staff for Installation Management	PA	Preliminary Assessment
AEDBR	Army Environmental Database - Restoration	PCB	Polychlorinated Biphenyls
AMCCOM	Army Munitions and Chemical Command	POL	Petroleum, Oil and Lubricants
AOC	Area of Concern	POM	Program Objective Memorandum
AST	Aboveground Storage Tank	PP	Proposed Plan
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980	ppb	Parts Per Billion
COE	Corps of Engineers	ppm	Parts Per Million
CTC	Cost to complete	PRG	Preliminary Remediation Goals
cy	cubic yards	PVC	Polyvinyl chloride
CY	Calendar Year	PY	Prior Year
D&M	Dames & Moore	RA	Remedial Action
DA	Department of the Army	RA(C)	Remedial Action - Construction
DD	Decision Document	RA(O)	Remedial Action - Operation
DERA	Defense Environmental Restoration Account	RAB	Restoration Advisory Board
DERP	Defense Environmental Restoration Program	RC	Response Complete
DNT	Dinitrotoluene	RCRA	Resource Conservation and Recovery Act
DOA	Department of the Army	RD	Remedial Design
DOD	Department of Defense	RDX	type of explosive
DSERTS	Defense Site Environmental Restoration Tracking System	REM	Removal
ECM	Earth-covered Storage Magazines	RI	Remedial Investigation
EPA	United States Environmental Protection Agency	ROD	Record of Decision
ER,A	Environmental Restoration, Army (formerly called DERA)	RRSE	Relative Risk Site Evaluation
FS	Feasibility Study	S&A	Supervision and Administration
FY	Fiscal Year	S&R	Supervision and Review
GMZ	Groundwater Management Zone	SI	Site Inspection
GRU	Groundwater Remediation Unit	SRU	Soil Remediation Unit
GW	Groundwater	SVOC	Semi-Volatile Organic Compounds
HRS	Hazard Ranking Score	SWMU	Solid Waste Management Unit
IAG	Interagency Agreement	Tetryl	Trinitrophenylmethylnitramine
IAP	Installation Action Plan	TNT	Trinitrotoluene
IL	Illinois	TPH	Total Petroleum Hydrocarbons
IRA	Interim Remedial Action	TRC	Technical Review Committee
IRP	Installation Restoration Program	USACE	United States Army Corps of Engineers
JAAP	Joliet Army Ammunition Plant	USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
JOAAP	Joliet Army Ammunition Plant	USAEC	United States Army Environmental Center
LAP	Load and Pack	USAEHA	United States Army Environmental Hygiene Agency (currently named USAEC)
LTM	Long Term Monitoring	USATHAMA	United States Army Toxic and Hazardous Materials Agency
LTO	Long Term Operation	USDA	United States Department of Agriculture
Mfg	Manufacturing	UST	Underground Storage Tank
NCP	National Contingency Plan	VA	Department of Veteran Affairs
NE	Not Evaluated	VOC	Volatile Organic Compounds
NFA	No Further Action	WCLF	Will County Landfill
NPL	National Priorities List		
OU	Operable Unit		

STATUS:	Joliet AAP has been on the NPL since 22 July 1987 (2 Sites) HRS Value: Mfg Area - 32.08, LAP Area - 35.23		
TOTAL # OF AEDBR SITES:	54		
ACTIVE ER,A SITES:	20		
RIP with LTM:	1		
RESPONSE COMPLETE SITES:	33		
DIFFERENT SITE TYPES:	14 Spill Sites 1 Unexploded Munitions 6 Burn Areas 8 Storage Areas 6 Landfills 1 Firing Range 2 Maintenance Yards 2 Waste Treatment Plants 1 Surface Disposal 1 Industrial Discharge 2 Contaminated Buildings 1 Contaminated Groundwater 2 Contaminated Sediments 5 Disposal Pits/Dry Well 2 Surface Impoundments/Lagoon		
CONTAMINANTS OF CONCERN:	Explosives, Metals		
MEDIA OF CONCERN:	Soil, Groundwater		
COMPLETED REM/IRA/RA:	RA - Group 70 Motor Pool (L6) 1997 IRA - Ash Pile Caps Repairs (M1&M9) 1999 RA - Tetryl Production Area (M5) 2000 RA - Red Water Area (M7) 2001 RA - Test Site (L11) 2002 RA - Group 6 (L16) 2002 (For a full list of past REM/IRA/RAs, see the REM/IRA/RAs Section)		
RA FIVE YEAR REVIEW:	RA five-year review ROD planned for June 2004. An installation-wide five-year review will be conducted in FY04, FY09 and FY14.		
CURRENT IRP PHASES:	FS at 11 sites RA at 3 sites RA(O) at 1 site LTM at 1 site		
PROJECTED IRP PHASES:	RD at 14 sites RA at 16 sites RA(O) at 1 site LTM at 6 sites		
IDENTIFIED POSSIBLE REM/IRA/RA:	JAAP-001, 002, 003, 004, 006, 009, 011, 012, 013, 0L1, 0L2, 0L3, 0L4, 0L5, 0L7, 0L8, 0L9, L10, L14, L16, L23		
DURATION:	Year of IRP Inception: 1978 Year of IRP Completion Excluding LTM: 2009 Year of IRP Completion Including LTM: 2032		

Installation Description

SITE DESCRIPTION:

Joliet Army Ammunition Plant (JOAAP) is located in northeastern Illinois, approximately 60 miles southwest of Chicago and 10 miles south of Joliet in Will County. Nearby communities include Channahon to the northwest, Elwood to the north, Manhattan to the northeast, Symerton to the southeast, and Wilmington to the south. The installation, which is divided by IL Route 53, occupied a total of 23,544 acres, approx. 37 square miles. Current acreage under Department of Army control is approximately 4,783.

COMMAND ORGANIZATION:

ACSIM (Assistant Chief of Staff for Installation Management)

Region: North East

Installation: Joliet Army Ammunition Plant

IRP EXECUTING AGENCIES:

Investigation Phase: U.S. Army Environmental Center

Action Phase: U.S. Army Corps of Engineers, Louisville District

REGULATORY PARTICIPATION:

Federal: U.S. Environmental Protection Agency, Region V

State: Illinois Environmental Protection Agency, Bureau of Land

REGULATORY STATUS:

- NPL; Mfg Area Jul 1987, LAP Mar 1989
- Record of Decision signed; Nov 1998
- Federal Facility Agreement; Jun 1989
- Technical Review Committee; Jul 1988
- Restoration Advisory Board; Dec 1995
- Projected date of removal from NPL; 2015

MAJOR CHANGES TO IAP FROM PREVIOUS YEAR (2003):

- Completed Remedial Actions at JAAP-L11 and L16.
- Excavated 40K tons of explosives-contaminated soil at JAAP-006.
- Bio-remediated 36K tons of explosives-contaminated soil.
- Transferred 106 acres to State of Illinois.

Installation Description

CURRENT STATUS:

JOAAP is an U.S. Army-owned industrial facility that is currently excess. In 1999, Alliant Techsystems, Inc. completed producing ammunition on a limited basis, under a facility-use contract for part of the Load, Assemble and Pack (LAP) area. The Manufacturing (Mfg) Area is completely inactive.

HISTORY & MISSION:

JOAAP was constructed in the early 1940s. It originally consisted of the Kankakee Ordnance Works and the Elwood Ordnance Plant and is located in southwestern Will County, Illinois. The installation originally encompassed approximately 36,000 acres that are divided by IL Route 53. Approximately 13,000 acres were excessed and disposed in the early 1960s. The eastern side of the plant was used to load, assemble and pack bombs, shells, mines, and supplementary charges, and was known as the LAP Area. The western side of the plant, known as the Mfg Area, was equipped to produce explosives such as trinitrotoluene (TNT), dinitrotoluene (DNT), trinitrophenylmethylnitramine (tetryl) and constituent chemicals. In the past, production output at JOAAP varied as the demand for munitions fluctuated. The plant was used extensively during World War II. Production was re-activated in support of the conflicts in Korea and Viet Nam. No production has occurred since 1977. During times of inactivity, many areas and facilities were leased out for commercial operations.

PROPERTY TRANSFER:

In accordance with the Illinois Land Conservation Act of 1995, P.L. 104-106, Div. B, Title 2901-2932, Feb 10, 1996, the Army will transfer JOAAP land to various Federal, local and state jurisdictions. Approximately 982 acres was transferred to the Department of Veterans Affairs (VA) to establish a Veterans Cemetery (1997); 455 acres was transferred to Will County, Illinois to establish the Will County Landfill (WCLF) (2002). Approximately 19,100 acres will be transferred to the U.S. Department of Agriculture (USDA) for establishing the Midewin National Tallgrass Prairie. To date, 15,080 acres have been conveyed to USDA. Approximately 3,000 acres will be transferred to the State of Illinois to establish two industrial parks. To date, transfer-ence of 2,400 acres to the State of Illinois has been completed.

Contamination Assessment

OVERVIEW

The main concerns of the IRP have been contamination of soils and groundwater by explosives and metals. There has been no migration of contamination off-post. Contaminants at the installation include waste products from the production of sulfuric and nitric acids, sodium sulfite, TNT, DNT, tetryl, RDX, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs).

The goal of the overall cleanup activities at JOAAP is to eliminate or reduce the levels of contaminants to concentrations that are protective to human health and the environment, such that no unacceptable health effects or ecological impacts will result from future uses of the JOAAP property.

It is generally agreed that the JOAAP IRP began at the time of the Installation Assessment of Joliet Army Ammunition Plant (a records search conducted in 1978) to identify past contamination and to assess the potential for contaminant migration beyond the installation boundary, if any.

The Mfg Area was placed on the National Priorities List (NPL) in July 1987 with a Hazard Ranking Score (HRS) of 32.08. The LAP Area was placed on the NPL in March 1989 with a HRS of 35.23. The Army, EPA Region V, and Illinois EPA signed a Federal Facility Agreement in June 1989.

Of the 53 sites originally identified for study in the early investigations, 27 were recommended for remedial action in the Feasibility Study (FS) completed in late 1997. The other 26 were found to meet the requirements that allowed them to be recommended for no further action. Currently, 20 sites are active in the cleanup program, three sites have Remedy in Place (RIP) with Long Term Monitoring (LTM), and four sites are Response Complete (RC).

The Record of Decision (ROD) was finalized in November 1998 except for certain soil issues on USDA land. The ROD specifies remedial activities such as bioremediation, waste removal, source removal, and capping for contaminated soils. The ROD specified natural attenuation with institutional controls for groundwater because some contaminant concentrations exceed safe levels.

The current focus of the IRP is completing remedial action at sites for which final cleanup goals have been established. A subsequent Final ROD is planned to address the interim USDA soil component. All other decisions within this document are considered final.

Based upon concerns raised by USDA and other stakeholders, the Army, EPA and Illinois EPA agreed in 1998, to reevaluate the risk to human and ecological receptors. Multi-agency work groups were formed in 1999 to evaluate these risks, and recommended preliminary remediation goals in 2000. These goals are being evaluated by a multi-agency management group. Appropriate final remedial actions for USDA soils will be developed, evaluated and selected in accordance with the NCP. This process is expected to be completed in late FY03. Very careful selection of appropriate final goals is critical because of the significant impacts they may have on final program schedule and costs.

Contamination Assessment

PREVIOUS STUDIES

1978

- Installation Assessment; USATHAMA, SEP 78

1982

- Installation Restoration Survey; Donahue and Assoc., Inc., NOV 82

1983

- JAAP Phase II Technical Report: TNT Ditch Complex, Red Water Area, Explosive Burning Grounds, Group 61; Donahue and Assoc., Inc., AUG 83
- JAAP Phase II: Technical Report, Excessing Parcels; Donahue and Assoc., Inc., AUG 83

1985

- JAAP Red Water Lagoon Sampling and Analysis, Remedial Action; Donahue and Assoc., Inc., OCT 85

1986

- Midwest Site Confirmatory Survey, Sampling Report, Round 1; Dames and Moore, AUG 86
- Midwest Site Confirmatory Survey, Sampling Report, Round 2; Dames and Moore, SEP 86
- Midwest Site Confirmatory Survey Assessment Report; Dames and Moore, NOV 86

1989

- Assessment Report, PCB Spill Area, Group 70, LAP Area, JAAP; Dames and Moore, FEB 89

1990

- Phase I Results Report, Remedial Investigation, Manufacturing Area; Dames and Moore, SEP 90

1993

- Phase II Remedial Investigation Report, Manufacturing Area; Dames and Moore, MAY 93
- Phase I Remedial Investigation Results Report, LAP Area; Dames and Moore, JUL 93

1994

- Baseline Risk Assessment (Final), RI/FS, Manufacturing Area; Dames and Moore, MAR 94
- Health Risk Assessment for Consumption of Deer Muscle and Liver from JAAP, (Final); USAEHA, JUN 94
- Feasibility Study, Groundwater Operable Unit, Manufacturing Area; Dames and Moore, OCT 94
- Phase I Ecological Risk Assessment (Final); USAEHA, NOV 94
- Phase II Aquatic Ecological Risk Assessment (Draft); USAEHA, NOV 94
- Phase II Remedial Investigation (Final), LAP Area; Dames and Moore, NOV 94

1995

- Feasibility Study, Groundwater Operable Unit, LAP Area; Dames and Moore, JAN 95
- Baseline Risk Assessment (Final), RI/FS, LAP Area; Dames and Moore, FEB 95
- Waste Classification and Volume Estimates, LAP Area (Revised Draft); Dames and Moore, APR 95

Previous Studies continued next page

Contamination Assessment

PREVIOUS STUDIES, continued

1996

- JAAP Preliminary Remediation Goals; OHM Corp., APR 96
- Internal Draft Feasibility Studies (4) Dames and Moore, OHM Corp., OCT 96

1997

- Phase 2, Aquatic Ecological Risk Assessment: USACHPPM (Final), JAN 97
- Project Management Plan for the Environmental Removal Action, L6/Group 70, IT Corp., AUG 97
- Final Feasibility Study Report, LAP Area, Soil Operable Units and Groundwater Operable Units, Dames and Moore, SEP 97
- Final Feasibility Study Report, Mfg Area, Soil Operable Units and Groundwater Operable Units, OHM Corp., SEP 97
- Proposed Plans for the Groundwater Operable Unit and the Soil Operable Unit for JOAAP, U.S. Army, DEC 97

1998

- Record of Decision, Soil and Groundwater Operable Units, Manufacturing and Load-Assembly-Package Areas, ECG, NOV 98

1999

- Draft Final RD/RA Work Plan, Montgomery Watson, FEB 99
- Final RD/RA Work Plan for Groundwater and Soil, DEC 99

2000

- Prairie Worker and Ecological PRG Reports, SEP 2000

2001

- Draft Final PCB Sites RA Closure Report, SEP 01
- Draft Treated Soil Re-Use Plan, NOV 01

2002

- Draft Final Site M10 Closure Report, JAN 02

2003

- Draft Final Sites L11/L16 Closure Report, AUG 03
- Draft Final Site M7 Closure Report SEP 03
- Draft Focused Feasibility Study, OCT 2003

2004 IAP

Joliet AAP
Active Site Descriptions
in the Mfg. Area

SOUTHERN ASH PILE (M1)

JAAP-001

SITE DESCRIPTION

The Southern Ash Pile site is encompassed within a fenced area of approximately 50 acres, though the pile itself covers about eight acres. This is in the southwestern corner of the Manufacturing Area. The pile contains the solid residue from the incineration of red water and is comprised primarily of inorganic salts, mostly sodium sulfate. The pile was completed and initially capped in 1976. The cap has been repaired twice due to settling which caused breaching of the cap. A flexible membrane cap was installed in 1996, then replaced in 1999.

Both groundwater and surface water have been impacted by past discharges. A Groundwater Management Zone (GMZ) has been established and was revised in FY03.

This site is part of Soil Remediation Unit (SRU) 6 for landfills.

This site is intended to be transferred to USDA.

STATUS

RRSE RATING: Low

CONTAMINANTS: Sulfate

MEDIA OF CONCERN:
Groundwater, Surface Water, Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, IRA

CURRENT IRP PHASE: RA

FUTURE IRP PHASE: RA, LTM
(JAAP-GWM)

PROPOSED PLAN

The cap will be maintained until the landfill contents (approximately 205K cy) are excavated and disposed at the WCLF or other off-site disposal facility. Groundwater monitoring will continue in support of the selected remedy until remedial goals are met. These costs are being funded under site JAAP-GWM.

EXPLOSIVE BURNING GROUNDS (M2)

JAAP-002

SITE DESCRIPTION

The Burning Ground is a 25 acre site in the southwestern portion of the Mfg. Area. TNT has been detected in soil, but not groundwater.

This is an interim ROD site and final remedial goals have not been established.

This site is intended to be transferred to USDA.

PROPOSED PLAN

The FS will be completed and final remedial goals will be developed. The Final ROD is expected to be finalized in CY04.

Approximately 1.6K cy (based on interim PRGs) of explosives-contaminated soil will be excavated and bioremediated. Funding for the treatment will be allocated to the Bioremediation Facility located at JAAP-004 (M4).

Groundwater monitoring costs are being funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives (TNT)

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI

CURRENT IRP PHASE: FS
(Funded in FY03)

FUTURE IRP PHASE: RD, RA

FLASHING GROUNDS (M3)

JAAP-003

SITE DESCRIPTION

The Flashing Ground is six-acre fenced area, within a 60-acre parcel located in the west-central portion of the Mfg. Area. It was used primarily for the flash burning of equipment and demolition of materials to remove explosive residues.

The site contains approximately 5,600cy of metals-contaminated soil and 400cy of explosives-contaminated soil.

This is an interim ROD site and final remedial goals have not been established.

This site is intended to be transferred to USDA.

Groundwater monitoring has been temporarily ceased pending completion of the remedial action, since the results of four groundwater sampling rounds were below remedial goals.

STATUS

RRSE RATING: High
CONTAMINANTS: Explosives, Metals
MEDIA OF CONCERN: Soil
COMPLETED IRP PHASE: PA/SI, RI
CURRENT IRP PHASE: FS (Funded)
FUTURE IRP PHASE: RD, RA

PROPOSED PLAN

The FS will be completed and final remedial goals will be developed. The Final Rod is expected in CY04.

Approximately 6K cy (based on interim PRGs) of contaminated soil will be excavated and either bioremediated or disposed in a hazardous waste landfill. Funding for the treatment of the explosives-contaminated soil will be allocated to the Bioremediation Facility located at JAAP-004 (M4).

Groundwater monitoring costs (post-RA) are being funded under site JAAP-GWM.

SITE DESCRIPTION

JAAP-004 is approximately 100 acres in the west-central portion of the Mfg. Area. It was the site of lead azide explosives production. The buildings have been removed from the site. The lead contamination exists in a former two acre pond.

The central bioremediation treatment facility was constructed in 1999 and is located on a 20 acre parcel of this site.

This is an interim ROD site and final remedial goals have not been established.

This site is intended to be transferred to USDA.

STATUS

RRSE RATING: High

CONTAMINANTS: Lead

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI, RI

CURRENT IRP PHASE: FS, RA(O)

FUTURE IRP PHASE: RD, RA, RA(O)

PROPOSED PLAN

The FS will be completed and final remedial goals will be developed. The Final ROD is expected in CY04.

Approximately 4,200 cy of lead-contaminated soil will be excavated, transported, and disposed of in a hazardous waste landfill.

Explosives-contaminated soil at the following AEDBR sites will be treated under this site: JAAP-002, 003, 005, 006, 007, 0L1, 0L2, 0L3, 0L7, 0L8, 0L9, L10, L14, L16. Treatment costs for all explosives-contaminated soils (installation-wide) are allocated to this AEDBR site. Approximately 200,000 cy of contaminated soil is expected to be treated.

The Installation-Wide Five-Year Review in FY04 will be funded under this site. The Installation-Wide (GRU) Five-Year Review in FY09 and FY14 and Groundwater monitoring costs (post-RA) will be funded under site JAAP-GWM.

M6 - TNT DITCH COMPLEX (M6)

JAAP-006

SITE DESCRIPTION

The TNT Ditch Complex is 275 acres in the north central part of the Mfg. Area. It consists of ten “batch” and six “continuous” production lines. It is part of SRU 1 (explosives in soil) and SRU 3 (explosives and metals in soil).

Approximately 66 acres of this land were transferred to the State of Illinois in July 2001.

A Groundwater Management Zone (GMZ) has been established.

PROPOSED PLAN

A total of approximately 165K cy is planned to be excavated and stockpiled for treatment at JAAP-004. To date, ~119K cy of the soil has been removed.

Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, IRA

CURRENT IRP PHASE: RA

FUTURE IRP PHASE: RC

SITE DESCRIPTION

The Northern Ash Pile is approximately six acres in the north end of the Mfg. Area. The contents are very similar to the Southern Ash Pile (JAAP-001), but was first capped in 1968.

As a result of erosion, the site was recapped in 1985 with an additional 12 inches of clay and six inches of topsoil. The cap was repaired in 1993 and a leachate control system was installed in 1999. In 2001, as part of a maintenance action, the cap drainage was improved by increasing grade (mixture of clay and treated soil from the biotreatment facility).

This site is intended to be transferred to the State of Illinois.

It is part of SRU6 (landfills).

STATUS

RRSE RATING: Low

CONTAMINANTS: Sulfate

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, IRA

CURRENT IRP PHASE: RA

FUTURE IRP PHASE: RA

PROPOSED PLAN

The cap will be maintained until the landfill contents (approximately 124K cy) are excavated and disposed at the WCLF or other off-site disposal facility. RA cost estimates are based on no disposal fees at WCLF.

M11 LANDFILL (M11)

JAAP-011

SITE DESCRIPTION

The original study site covered 100 acres in the southwestern portion of the Mfg. Area. The area was originally mined for gravel, then later received a variety of wastes. The Landfill Area is approximately 20 acres. It contains mostly construction debris and was used from 1952-78. Groundwater contamination was not detected during RI sampling.

The consolidation of site debris will result in capping 11 acres of the site. It is part of SRU6 (landfills).

This site is intended to be transferred to USDA.

PROPOSED PLAN

Consolidation of the waste and construction of a RCRA Subtitle C cap will be performed. Long term post-closure cap maintenance will be performed. Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: Low

CONTAMINANTS: Metals

MEDIA OF CONCERN:
Groundwater, Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, IRA

CURRENT IRP PHASE: None

FUTURE IRP PHASE: RA, LTM
(cap maintenance)

SELLITE MANUFACTURING AREA (M12)

JAAP-012

SITE DESCRIPTION

This area is 16 acres in the northwest corner of the Mfg. Area. Sellite was used to purify TNT. Lead contaminated soil has been detected in this area.

This site is intended to be transferred to USDA.

This is an interim ROD site and final remedial goals have not been established.

PROPOSED PLAN

A Final ROD is expected in CY04. Approximately 3,700 cy of lead-contaminated soil will be excavated and transported to an appropriate disposal site.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI

CURRENT IRP PHASE: FS
(Funded)

FUTURE IRP PHASE: RD, RA

M13 GRAVEL/EXCAVATION PITS (M13)

JAAP-013

SITE DESCRIPTION

This area contains four pits that were originally mined for gravel. The unused pits received various disposals later. The area totals 130 acres in the central portion of the Mfg. Area. Thirteen acres will require a RCRA Subtitle D cap. The soil is contaminated with metals and SVOCs.

It is part of SRU6 (landfills).

The acreage outside of the landfill area was transferred to the State of Illinois in August 2000. The 13 acre landfill area will be transferred to the State after remediation is completed.

A Groundwater Management Zone (GMZ) has been established.

PROPOSED PLAN

A RCRA Subtitle D cap will be constructed. Cap maintenance and long term monitoring will continue. Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: Low

CONTAMINANTS: SVOCs, Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD

CURRENT IRP PHASE: None

FUTURE IRP PHASE: RA, LTM

INSTALLATION-WIDE GWATER MONITORING

JAAP-GWM

SITE DESCRIPTION

This site was created to address all groundwater monitoring at Joliet AAP. Sites included are: JAAP-001, 003, 004, 005, 006, 007, 008, 0L1, 0L2, 0L3, L14.

The groundwater activities currently include surveying 181 points, monitoring 110 wells and 18 surface water locations. Monitoring activities are expected to be reduced to annual sampling after the FY04 five-year review.

PROPOSED PLAN

Groundwater monitoring will continue. An installation-wide five-year review will be conducted in FY09 and FY14.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives, VOCs, Metals

MEDIA OF CONCERN:
Groundwater

COMPLETED IRP PHASE: PA/SI, RI/FS, RD, RA

CURRENT IRP PHASE: LTM

FUTURE IRP PHASE: LTM

2004 IAP

Joliet AAP
Active Site Descriptions
in the LAP Area

GROUP 61 TNT - RIDGE & FURROW SYSTEM (L1)

JAAP-0L1

SITE DESCRIPTION

Group 61 is a demilitarization process area that covers 80 acres in the north central portion of the LAP Area and is part of SRU1 for explosives-contaminated soil. The site contains the Ridge-and-Furrow System, where ammunition washout effluent was allowed to evaporate.

This site is intended to be transferred to USDA.

This is an interim ROD site for explosives-contaminated soil and final remedial goals have not been established.

PCB-contaminated soil (155cy) was removed in August 1999.

A Groundwater Management Zone (GMZ) has been established.

PROPOSED PLAN

The Final ROD is expected in CY04. Approximately 6,065 cy of explosives-contaminated soils will be excavated and transported to JAAP-004 for treatment. Approximately 1275 cy of TPH-contaminated soils will be excavated and disposed of in the WCLF. Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives, TPH

MEDIA OF CONCERN: Soil, Groundwater

COMPLETED IRP PHASE: PA/SI, RI, RD/RA (GW and PCBs)

CURRENT IRP PHASE: FS (Funded)

FUTURE IRP PHASE: RD, RA

EXPLOSIVE BURNING GROUND (L2)

JAAP-0L2

SITE DESCRIPTION

This site is 45 acres in the west central portion of the LAP Area. It was used for the open combustion of munitions and explosive wastes. It also contained popping furnaces and oil disposal pits. Soils containing metals near popping furnaces are part of SRU2. Soils around burning pads with explosives and metals are part of SRU3. UXO is present.

A GMZ has been established.

This is an interim ROD site and final remedial goals have not been established for soils.

This site is intended to be transferred to USDA.

PROPOSED PLAN

Approximately 4,440 cy of metals-contaminated soils will be excavated and disposed in hazardous waste disposal facility.

An additional 16,350 cy of soils contaminated with both explosives and metals will be excavated and treated or disposed.

The Final ROD is expected in CY04. Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives, Metals

MEDIA OF CONCERN: Soil, Groundwater

COMPLETED IRP PHASE: PA/SI, RI, RD (GW), IRA

CURRENT IRP PHASE: FS (Funded)

FUTURE IRP PHASE: RD, RA, LTM (JAAP-GWM)

DEMO AREA (L3)

JAAP-0L3

SITE DESCRIPTION

This site is 50 acres in the west central portion of the LAP Area. It was used for open combustion of refuse and contained a fire training site. The fire training area and soils east of demolition pits have metals (SRU2). Areas within the berms have metals and explosives (SRU3). Berm soil will be capped as part of SRU6. UXO is present.

A GMZ has been established.

This is an interim ROD site and final remedial goals have not been established for soils.

This site is intended to be transferred to USDA.

PROPOSED PLAN

Approximately 185 cy of metals-contaminated soils will be excavated and disposed in non-hazardous waste disposal facility.

An additional 1,070 cy of soils contaminated with both explosives and metals will be excavated and treated or disposed.

Approximately 7.5 acres will be capped.

The Final ROD is expected in CY04. Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives, Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:

PA/SI, RI, IRA

CURRENT IRP PHASE: FS

(Funded)

FUTURE IRP PHASE: RD, RA

SITE DESCRIPTION

The landfill is two acres in the west central portion of the LAP Area. It was reportedly filled with early construction wastes. It is part of SRU6 (landfills).

This site is intended to be transferred to USDA.

PROPOSED PLAN

Approximately 37K cy will be excavated and transported to WCLF or other appropriate off-site disposal facility.

STATUS

RRSE RATING: Low

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI,
RI/FS, RD

CURRENT IRP PHASE: None

FUTURE IRP PHASE: RA

SALVAGE YARD (L5)

JAAP-0L5

SITE DESCRIPTION

This site is approximately 16 acres in the northwestern portion of the LAP Area. It was used for open storage and salvage of miscellaneous installation materials. Metals, PCBs and TPH were detected in the soil above action levels.

This is an interim ROD site and final remedial goals have not been established for soils.

This site is intended to be transferred to USDA.

PROPOSED PLAN

The Final ROD is expected in CY04.

Approximately 1,070 cy of metals-contaminated soil will be excavated and transported to WCLF or other off-site disposal facility.

Approximately 1,135 cy of TPH-contaminated soil will be excavated and transported to WCLF or other off-site disposal facility.

Approximately 1,965 cy of PCB-contaminated soil will be excavated and disposed.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals, TPH, PCBs

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI, RI

CURRENT IRP PHASE: FS (Funded)

FUTURE IRP PHASE: RD, RA

GROUP 1 (L7), GROUP 2 (L8), GROUP 3 (L9) GROUP 3A JAAP-0L7, 0L8, 0L9, L10

SITE DESCRIPTION

These Groups (1, 2, 3, 3A) are located in the eastern portion of the LAP Area and cover about 100 acres each. They were used to load, assemble and pack munitions such as bombs, shells, and mines.

PCB-contaminated soil was remediated in 1999.

These sites are intended to be transferred to USDA. They are interim ROD sites and final remedial goals have not been established for explosives.

PROPOSED PLAN

A Final ROD is expected in CY04.

JAAP-0L7: ~1,850 cy of explosives-contaminated soil will be excavated and transported to JAAP-004 for treatment.

JAAP-0L8: ~400 cy of explosives-contaminated soil will be excavated and transported to JAAP-004 for treatment.

JAAP-0L9: ~1,500 cy of explosives-contaminated soil will be excavated and transported to JAAP-004 for treatment.

JAAP-L10: ~1,660 cy of explosives-contaminated soil and sediment will be excavated and transported to JAAP-004 for treatment.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives, PCBs

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI, RI

CURRENT IRP PHASE: FS (Funded)

FUTURE IRP PHASE: RD, RA

GROUP 4 - FUSE PRODUCTN/SMOKELESS POWDER

JAAP-L14

SITE DESCRIPTION

This site is in the southwestern portion of the LAP Area and covers approximately 60 acres. This site was part of the Fuze and Booster Area.

A GMZ has been established.

This site is intended to be transferred to USDA and the State of Illinois.

This site is an interim ROD site and final remedial goals have not been established for soil.

PROPOSED PLAN

A Final ROD is expected in CY04.

Approximately 420 cy of explosives-contaminated soil will be excavated and transported to JAAP-004 for treatment.

Groundwater monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives

MEDIA OF CONCERN: Soil, Groundwater

COMPLETED IRP PHASE: PA/SI, RI, RD (GW)

CURRENT IRP PHASE: FS (Funded)

FUTURE IRP PHASE: RD, RA, LTM (JAAP-GWM)

DISPOSAL PIT AT GROUP 27

JAAP-L23

SITE DESCRIPTION

The site is in the northern portion of the LAP Area and occupies approximately 2 acres. A small disposal pit in the southwest corner of the investigated area requires metals-contaminated soils remediation.

This site is intended to be transferred to USDA.

This is an interim ROD site and final remedial goals have not been established.

PROPOSED PLAN

A Final ROD is expected in CY04.

Only a small area on the southwest corner of L23 (aka L23A) requires excavation and disposal (at WCLF) of 3,300 cy of metals-contaminated soils.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI,
RI

CURRENT IRP PHASE: FS
(Funded)

FUTURE IRP PHASE: RD, RA

MILITARY MUNITION RULE SITES AT JOLIET ARMY AMMUNITION PLANT

Site ID	SiteType	SiteDescription	RRSE	PA	SI	RI	RD	RAC	RAO	LTM	IRA(C)	IRA(U)	RIP Date	RC Date
JAAP-001-R-01	Burn Area	Demolition Area (L3)	High	C		U	F	F		F	0	0		201709
JAAP-002-R-01	Burn Area	Explosive Burning Ground 1 (L2)	High	C		U	F	F		F	0	0		201709
JAAP-003-R-01	Small Arms Range	Training Area 7	NE	C		U	F	F			0	0		201709
JAAP-004-R-01	Burn Area	Former Burning Area (L34)		C		U	F	F	F	F	0	0	201710	203209

2004 IAP

Joliet AAP
Response Complete
Site Descriptions

M5 - TETRYL PRODUCTION AREA (M5)

JAAP-005

SITE DESCRIPTION

The tetryl area occupies 225 acres in the center of the Mfg. Area. Parts of it are in SRU 1 (explosives in soil) and other parts in SRU 3 (explosives and metals in soil). Soil removal was completed in 1999.

This site was transferred to the State of Illinois in Aug 2000.

A Groundwater Management Zone (GMZ) has been established.

Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals,
Explosives

MEDIA OF CONCERN:
Groundwater, Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, RA

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199909

M7 - RED WATER AREA SOUTH OF TNT DITCH (M7)

JAAP-007

SITE DESCRIPTION

The Red Water Area is 50 acres on the south end of the TNT Ditch Complex. The area was used for treatment of red water from the TNT production. The red water lagoon was remediated in 1985. It is part of SRU 1 (explosives in soil).

This site is intended to be transferred to the State of Illinois.

A Groundwater Management Zone (GMZ) has been established.

Approximately 16K cy of explosives-contaminated soil were excavated in FY02. This soil was treated at JAAP-004. This completes the soil RA at this site.

Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: High

CONTAMINANTS: Explosives,
Metals

MEDIA OF CONCERN:
Groundwater, Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, RA, IRA, LTM

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 200112

ACID MANUFACTURING AREA (M8)

JAAP-008

SITE DESCRIPTION

The Acid Manufacturing Area is 200 acres in the north central part of the Mfg. Area. Its plants were used to produce the nitric and sulfuric acids for the TNT and Tetryl processes.

A Groundwater Management Zone (GMZ) has been established.

This site was transferred to the State of Illinois on August 10, 2000.

Groundwater Monitoring will be funded under site JAAP-GWM.

STATUS

RRSE RATING: Low

CONTAMINANTS: Explosives

MEDIA OF CONCERN:

Groundwater

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, IRA, RA, LTM

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199912

TOLUENE TANKS FARMS (3) (M10)

JAAP-010

SITE DESCRIPTION

These three tank farm areas lie in the north end of the Mfg. Area. Each farm is approximately 10 acres and had four tanks per site. All of the tanks have been removed. Toluene, a feedstock for TNT production, was stored in these tanks. No further action is necessary for the soil at any of the tank farms, but the central and west tank farms had groundwater contamination.

A Groundwater Management Zone (GMZ) has been established. Groundwater monitoring is now complete, since four sampling round results did not exceed remedial goals.

This site was transferred to the State of Illinois in August 2000.

STATUS

RRSE RATING: Medium

CONTAMINANTS: VOCs

MEDIA OF CONCERN:

Groundwater

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, RA(C), LTM

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199909

FORMER POND AREA (M14)

JAAP-014

SITE DESCRIPTION

This site contains 14 acres in the western portion of the Mfg. Area.
A small pond was observed in historic photographs and was later filled.
This site was transferred to USDA in November 1997.
Contaminants were below action levels; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated
CONTAMINANTS: SVOCs,
Metals
MEDIA OF CONCERN: Soil
COMPLETED IRP PHASE:
PA/SI, RI/FS
CURRENT IRP PHASE: RC
FUTURE IRP PHASE: RC
RC DATE: 199305

FORMER SEWAGE TREATMENT PLANT (M15)

JAAP-015

SITE DESCRIPTION

The plant is in the northwest portion of the Mfg. Area and occupies 2 acres. It was taken out of service in 1982 when a new facility was constructed nearby.
This site was transferred to USDA in November 1997.
Contaminants were below action levels; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated
CONTAMINANTS: Explosives
MEDIA OF CONCERN:
Groundwater, Soil
COMPLETED IRP PHASE:
PA/SI, RI/FS
CURRENT IRP PHASE: RC
FUTURE IRP PHASE: RC
RC DATE: 199305

MOTOR POOL AREA (M16)

JAAP-016

SITE DESCRIPTION

The Motor Pool Area is about 8 acres in the north portion of the Mfg. Area. It was used to service the mobile equipment of the plant.

This site was transferred to the State of Illinois in August 2000.

Contaminants were below action levels; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: SVOCs, Metals

MEDIA OF CONCERN: Sediment

COMPLETED IRP PHASE: PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199305

LAUNDRY FACILITY (M17)

JAAP-017

SITE DESCRIPTION

The laundry was contained in one building in the northern portion of the Mfg. Area. It was used to launder work clothes that may have been contaminated.

This site was transferred to the State of Illinois in August 2000.

No site-related contamination was detected; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE: PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199305

HERBICIDE STORAGE AREA (M18)

JAAP-018

SITE DESCRIPTION

The area was one building in the northeastern portion of the Mfg. Area that was used for the storage of pesticides.

This site was transferred to the State of Illinois in August 2000.

No site-related contamination was detected; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199305

GROUP 70 - MOTOR POOL

JAAP-0L6

SITE DESCRIPTION

Located in the southwestern portion of the LAP area, Group 70 covered approximately 120 acres. Facilities included an electrical shop, a locomotive service building, a carpenter's shop, an above-ground gas storage tank, two fuel oil tanks, a motor pool, a laundry, and equipment storage sheds. All remediation (excavation and disposal of soils) was completed in November 1997.

This site has been transferred to Will County, IL, and the State of Illinois. The State of Illinois received their portion in August 2000. Will County received their portion in March 2002.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals,
PCBs, Organics

MEDIA OF CONCERN: Soil,
Groundwater

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, RA(C)

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199711

TEST SITE JAAP-L11

SITE DESCRIPTION

This area is 33 acres in the south portion of the LAP Area. It was used to verify firing velocities and impact effectiveness of various munitions.

This site is intended to be transferred to State of Illinois.

Metal-contaminated soil and UXO were removed in 2002.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, RA(C)

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199912

DOYLE LAKE AREA JAAP-L12

SITE DESCRIPTION

Doyle Lake is a 12 acre site in the southeast portion of the LAP Area. It received run-off from the load lines.

This site was transferred to USDA in November 1997.

Exposure pathways considered incomplete. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: Explosives
Metals

MEDIA OF CONCERN:

Sediment

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 68

JAAP-L13

SITE DESCRIPTION

This group is 125 acres in the southwestern portion of the LAP Area. It consists of 23 Earth-covered Storage Magazines (ECM) that were originally used to store fuzes.

This site is intended to be transferred to USDA.

This site does not pose an unacceptable risk; no further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: Explosives

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 5

JAAP-L15

SITE DESCRIPTION

This site is in the southwestern portion of the LAP Area and covers a approximately 60 acres. This site was part of the Fuze and Booster Area.

This site is intended to be transferred to USDA.

The site does not pose an unacceptable risk; no further action is necessary.

STATUS

RRSE RATING: Medium

CONTAMINANTS: TPH,
Explosives

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199604

SITE DESCRIPTION

This site is in the southwestern portion of the LAP Area and covers approximately 60 acres. This site was part of the Fuze and Booster Area. L16 is part of SRU 1 (explosives in soil). UXO is present at this site.

This site is intended to be transferred to the State of Illinois.

Explosives-contaminated soil was excavated in FY02.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals,
Explosives

MEDIA OF CONCERN: Soil,
Groundwater

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, RA(C)

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 200212

SITE DESCRIPTION

This site is in the southwestern portion of the LAP Area and covers approximately 60 acres. L17 is part of SRU 4. This site was part of the Fuze and Booster Area.

PCB-contaminated soil was excavated and disposed off-site in August 1999.

This site is intended to be transferred to the State of Illinois.

No further action is necessary.

STATUS

RRSE RATING: High

CONTAMINANTS: PCBs

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS, RD, RA(C)

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199912

GROUPS 8 AND 9 JAAP-L18 AND JAAP-L19

SITE DESCRIPTION

These groups are in the western portion of the LAP Area and cover a combined 30 acres. These groups originally produced primers. This site was part of the Fuze and Booster Area.

This site is intended to be transferred to USDA.

No unacceptable risk was posed by these sites. No further action is necessary.

STATUS

RRSE RATING: Low

CONTAMINANTS: Metals,
Explosives

MEDIA OF CONCERN: Soil,
Groundwater

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412 (Group 8)
199604 (Group 9)

GROUP 20 JAAP-L20

SITE DESCRIPTION

This is the sewage treatment plant in the southwestern portion of the LAP Area that covers 3 acres.

This site is intended to be transferred to USDA.

No site related contamination was detected. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

SANITARY LANDFILL
JAAP-L21

SITE DESCRIPTION

L21 is a site totalling 450 acres with miscellaneous structures, shops, and storage sheds. It also encompasses a small, closed sanitary landfill that was capped in 1993 under an approved closure plan. Landfill groundwater monitoring continues (non-IRP).

This site was transferred to USDA.

No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS, IRA

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 25 RAILROAD CLASSIFICATION YARD
JAAP-L22

SITE DESCRIPTION

The site is in the northwest portion of the Mfg. Area and occupies approximately 36 acres. This site is a former railroad classification yard.

This site was transferred to USDA in November 1997.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 29

JAAP-L24

SITE DESCRIPTION

Group 29 is a Railroad Classification Yard in the north central portion of the LAP Area. It occupies 36 acres.

This site was transferred to USDA in November 1997.

No historical evidence of contamination was identified. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 62

JAAP-L25

SITE DESCRIPTION

L25 includes two sets of inert warehouses and occupies 280 acres in the central portion of the LAP Area.

This site was transferred to USDA in November 1997.

No site -related contamination was detected. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: Explosives, Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:
PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 63

JAAP-L26

SITE DESCRIPTION

Group 63 is a 400 acre site containing 78 earth-covered storage magazines in the northwestern portion of the LAP Area.

This site was transferred to USDA in November 1997.

No site -related contamination was detected. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 64

JAAP-L27

SITE DESCRIPTION

Group 64 is a 240 acre site that contains 34 aboveground magazines in the eastern portion of the LAP Area.

This site is intended to be transferred to USDA.

No historical evidence of contamination was identified. No further action is necessary.

STATUS

RRSE RATING: Low

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 65 JAAP-L28

SITE DESCRIPTION

Group 65 is a 200 acre site that contains 22 earth-covered storage magazines in the southeastern portion of the LAP Area.

This site is intended to be transferred to USDA.

Field screening indicated no contamination. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

RCRA HAZARDOUS STORAGE GROUP (GROUP 66) AND GROUP 66A JAAP-L29 AND JAAP-L30

SITE DESCRIPTION

These groups, in the northeastern portion of the LAP Area, contain a combined 129 earth-covered storage magazines on 710 acres.

Both of these sites were transferred to USDA in November 1997.

Field screening indicated no contamination. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

EXTRACTION PITS JAAP-L31

SITE DESCRIPTION

This site contains three small pits, totaling about 5 acres, in the south-western portion of the LAP Area. They were originally borrow pits.

This site is intended to be transferred to USDA.

Soil sampling indicated no site related contamination. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

GROUP 60 JAAP-L32

SITE DESCRIPTION

This group contains the former administration and housing area in the southern portion of the LAP Area. Numerous buildings are contained within the 140 acres.

This site was transferred to the State of Illinois in August 2000.

Contaminants of concerns were detected below action levels. No further action is necessary.

STATUS

RRSE RATING: High

CONTAMINANTS: Metals

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199510

PVC AREA

JAAP-L33

SITE DESCRIPTION

It involves 130 acres in the central portion of the LAP Area and was used as an outdoor test range.

This site is intended to be transferred to USDA.

Contaminants of concerns were detected below action levels. No further action is necessary.

STATUS

RRSE RATING: Low

CONTAMINANTS: Explosives

MEDIA OF CONCERN: Soil

COMPLETED IRP PHASE: PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

FORMER BURNING AREA

JAAP-L34

SITE DESCRIPTION

This area covers 7 acres in the central portion of the LAP Area. It was used to burn and backfill materials.

This site is intended to be transferred to USDA.

Contaminants of concerns were detected below action levels. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE: PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

SITE DESCRIPTION

This is a 3 acre site in the west central portion of the LAP Area.

This site is intended to be transferred to USDA.

Contaminants of concerns were detected below action levels. No further action is necessary.

STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS: None

MEDIA OF CONCERN: None

COMPLETED IRP PHASE:

PA/SI, RI/FS

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

RC DATE: 199412

PAST MILESTONES

- 1978** Sep IRP Installation Assessment
- 1982** Nov Installation Restoration Survey
- 1983** Aug JAAP Phase II Technical Report
- 1985** Oct JAAP Red Water Lagoon Remedial Action
- 1986** Aug Midwest Site Confirmatory Survey, Round 1
Sep Midwest Site Confirmatory Survey, Round 2
Nov Midwest Site Confirmatory Survey Assessment
- 1987** Jul Manufacturing Area NPL Listing
- 1989** Apr LAP Area NPL Listing
Jun Interagency Agreement (IAG) Signed
- 1990** Sep Manufacturing Area Phase I RI
- 1993** May Manufacturing Area Phase II RI
Jul LAP Area Phase I RI
- 1994** Dec LAP Area Phase II RI
- 1996** Apr Preliminary Remediation Goals
- 1997** Sep Feasibility Study - All sites
Dec Proposed Plan - All sites
- 1998** Nov Record of Decision
Dec Deadlines for Completion of Draft Primary Documents and Project Schedule
- 1999** Apr Remedial Action Start - All final ROD sites
Dec RD/RA Final Work Plan - All final ROD sites

PROJECTED MILESTONES

Year of RA Completion Excluding LTM: 2009
Year of IRP Completion including LTM: 2032

Schedule

NO FURTHER ACTION SITES

Site	Site Name	RC Date
JAAP-005	M5 - Tetryl Production Area	199909
JAAP-007	M7 - Red Water Area South of TNT Ditch	200112
JAAP-008	Acid Manufacturing Area	199912
JAAP-010	Toluene Tank Farms (3)	199909
JAAP-014	Former Pond Area	199305
JAAP-015	Former Sewage Treatment Plant	199305
JAAP-016	Motor Pool Area	199305
JAAP-017	Laundry Facility	199305
JAAP-018	Herbicide Storage Area	199305
JAAP-0L6	Group 70 - Motor Pool	199711
JAAP-L11	Test Site	199912
JAAP-L12	Doyle Lake Area	199412
JAAP-L13	Group 68	199412
JAAP-L15	Group 5	199604
JAAP-L16	Group 6	200212
JAAP-L17	Group 7	199912
JAAP-L18	Group 8	199412
JAAP-L19	Group 9	199604
JAAP-L20	Group 20	199412
JAAP-L21	Sanitary Landfill	199412
JAAP-L22	Group 25 Railroad Classification Yard	199412
JAAP-L24	Group 29	199412
JAAP-L25	Group 62	199412
JAAP-L26	Group 63	199412
JAAP-L27	Group 64	199412
JAAP-L28	Group 65	199412
JAAP-L29	RCRA Hazardous Storage (Group 66)	199412
JAAP-L30	Group 66A	199412
JAAP-L31	Extraction Pits	199412
JAAP-L32	Group 60	199510
JAAP-L33	PVC Area	199412
JAAP-L34	Former Burning Area	199412
JAAP-L35	Fill Area	199412

Joliet AAP Installation Action Plan Schedule (Based on Cost-to-Complete current funding constraints)

CURRENT PHASE

FUTURE PHASE

AEDBR #	SITENAME	RRSE	PHASE	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010+
JAAP-001	Southern Ash Pile	Low	RA							
JAAP-002	Explosive Burning Ground	High	RD							
			RA							
JAAP-003	Flashing Grounds	High	RD							
			RA							
JAAP-004	Lead Azide Area	High	RI/FS							
			RD							
			RA							
			RA(O)							
JAAP-006	M6 TNT Ditch Complex	High	RA							
JAAP-009	Northern Ash Pile	Low	RA							
JAAP-011	M11 Landfill	Low	RA							
			LTM							
JAAP-012	Sellite Manufacturing Area	High	RD							
			RA							
JAAP-013	M13 Gravel/Excavation Pits	Low	RA							
			LTM							
JAAP-0L1	Group 61 TNT - Ridge & Furrow System	High	RD							
			RA							
JAAP-0L2	Explosive Burning Ground	High	RD							
			RA							

IAP Schedule Chart continued next page

Schedule

Joliet AAP Installation Action Plan Schedule (Based on Cost-to-Complete current funding constraints)

CURRENT PHASE				FUTURE PHASE						
AEDBR #	SITE NAME	RRSE	PHASE	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010+
JAAP-0L3	Demo Area	High	RD							
			RA							
JAAP-0L4	L4 Landfill Area	Low	RA							
JAAP-0L5	Salvage Yard	High	RD							
			RA							
JAAP-0L7	Group 1	High	RD							
			RA							
JAAP-0L8	Group 2	High	RD							
			RA							
JAAP-0L9	Group 3	High	RD							
			RA							
JAAP-L10	Group 3A	High	RD							
			RA							
JAAP-L14	Group 4 - Fuse Productn/Smokeless Powder	High	RD							
			RA							
JAAP-L23	Disposal Pit at Group 27	High	RD							
			RA							
JAAP-GWM	Installation-wide Gwater Monitoring	High	LTM							

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Phase Summary

This report identifies the number of approved sites in each remedial action phase, action and remedy status. Information is derived from data stored in the AEDB Restoration Module.

Phase/Status/Sites

PA			
C	F	U	RC
54	0	0	0

SI			
C	F	U	RC
54	0	0	0

RI/FS			
C	F	U	RC
41	0	13	25

RD			
C	F	U	RC
15	0	14	0

IRA			
C	F	U	RC
9	0	0	0

RA(C)			
C	F	U	RC
9	11	9	9

RA(O)			
C	F	U	RC
0	0	1	0

LTM			
C	F	U	RC
3	2	1	0

Remedy/Status/Actions(Sites)

FRA					
C		F		U	
14	(14)	20	(19)	4	(4)

IRA					
C		F		U	
10	(9)	0	(0)	0	(0)

RC Total: 34
RIP Total: 0

Schedule

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Army
Environmental
Database

Installation Action Plan

Fall 2003/ Working

This report provides Relative Risk, Phase, Remedial Action, Remedy-In-Place, and Response Complete information for all Site(s) within selected Installation. The report is used as an attachment to the Installation Action Plan. Information is derived from data stored in the AEDB Restoration Module. Runtime filters are listed in a separate section at the end of the report.

Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-001	3A	SL	PA SI RI RD IRA	RAC		2	0	0			200808
JAAP-002	1A	SL	PA SI	RI RD	RAC	0	0	0			200509
JAAP-003	1A	SL	PA SI	RI RD	RAC	0	0	0			200609
JAAP-004	1A	SL	PA SI	RI RD RAC RAO		0	0	0		200709	200909
JAAP-005	1A	SL	PA SI RI RD RAC			0	0	0			199909

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Installation Action Plan

Fall 2003/ Working

Army
Environmental
Database

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-006	1A	SL	PA SI RI RD IRA	RAC		1	0	0			200509
JAAP-007	1A	SL	PA SI RI RD IRA RAC LTM			1	0	0	C		200112
JAAP-008	3A	SL	PA SI RI RD IRA RAC LTM			1	0	0	C		199912

Schedule

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Army
Environmental
Database

Installation Action Plan

Fall 2003/ Working

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-009	3A	SL	PA SI RI RD IRA	RAC		1	0	0			200803
JAAP-010	2A	GW	PA SI RI RD RAC LTM			0	0	0	C		199909
JAAP-011	3A	GW	PA SI RI RD IRA		RAC LTM	1	0	0	F		200709
JAAP-012	1A	SL	PA SI	RI RD	RAC	0	0	0			200512

United States Army

Installation Action Plan

Fall 2003/ Working

Army
Environmental
Database

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-013	3A	GW	PA SI RI RD		RAC LTM	0	0	0	F		200709
JAAP-014	0A		PA SI RI			0	0	0			199305
JAAP-015	0A		PA SI RI			0	0	0			199305
JAAP-016	0A		PA SI RI			0	0	0			199305
JAAP-017	0A		PA SI RI			0	0	0			199305
JAAP-018	0A		PA SI RI			0	0	0			199305

Schedule

Fall 2003/ Working

United States Army

Army
Environmental
Database

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-0L1	1A	SL	PA SI	RI RD RAC		0	0	0			200609
JAAP-0L2	1A	SL	PA SI IRA	RI RD	RAC	1	0	0			200709
JAAP-0L3	1A	SL	PA SI IRA	RI RD	RAC	1	0	0			200709
JAAP-0L4	3A	GW	PA SI RI RD		RAC	0	0	0			200909
JAAP-0L5	1A	SL	PA SI RI	RD	RAC	0	0	0			200609

27-OCT-2003 08:17

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Installation Action Plan

Fall 2003/ Working

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-0L6	1A	SL	PA SI RI RD RAC			0	0	0			199711
JAAP-0L7	1A	SL	PA SI	RI RD RAC		0	0	0			200609
JAAP-0L8	1A	GW SL	PA SI	RI RD RAC		0	0	0			200512
JAAP-0L9	1A	SL	PA SI	RI RD RAC		0	0	0			200512
JAAP-GWM	1A	GW	PA SI RI RD RAC	LTM		0	0	0	U		199912

27-OCT-2003 08:17
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Environmental
Database

Installation Action Plan

Fall 2003/ Working

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-L10	1A	SL	PA SI	RI RD RAC		0	0	0			200512
JAAP-L11	1A	SL	PA SI RI RD RAC			0	0	0			199912
JAAP-L12	0A		PA SI RI			0	0	0			199412
JAAP-L13	0A		PA SI RI			0	0	0			199412
JAAP-L14	1A	SL	PA SI	RI RD	RAC	0	0	0			200512
JAAP-L15	2A	SL	PA SI RI			0	0	0			199604

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Installation Action Plan

Fall 2003/ Working

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MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-L16	1A	SL	PA SI RI RD RAC			0	0	0			200212
JAAP-L17	1A	SH	PA SI RI RD RAC			0	0	0			199912
JAAP-L18	3A	GW	PA SI RI			0	0	0			199412
JAAP-L19	3A	GW	PA SI RI			0	0	0			199604
JAAP-L20	0A		PA SI RI			0	0	0			199412

27-OCT-2003 08:17
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Schedule

United States Army

Army
Environmental
Database

Installation Action Plan

Fall 2003/ Working

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-L21	0A		PA SI RI IRA			1	0	0			199412
JAAP-L22	0A		PA SI RI			0	0	0			199412
JAAP-L23	1A	SL	PA SI	RI RD	RAC	0	0	0			200512
JAAP-L24	0A		PA SI RI			0	0	0			199412
JAAP-L25	0A		PA SI RI			0	0	0			199412
JAAP-L26	0A		PA SI RI			0	0	0			199412

27-OCT-2003 08:17
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Installation Action Plan

Fall 2003/ Working

Army
Environmental
Database

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Oversight: NORTHWEST**MSC:****Installation:** JOLIET**State:** IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-L27	3A	SL	PA SI RI			0	0	0			199412
JAAP-L28	0A		PA SI RI			0	0	0			199412
JAAP-L29	0A		PA SI RI			0	0	0			199412
JAAP-L30	0A		PA SI RI			0	0	0			199412
JAAP-L31	0A		PA SI RI			0	0	0			199412
JAAP-L32	1A	SL	PA SI RI			0	0	0			199510

27-OCT-2003 08:17

AEDBR

Schedule

United States Army

Army
Environmental
Database

Installation Action Plan

Fall 2003/ Working

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Oversight: NORTHWEST

MSC:

Installation: JOLIET

State: IL

Site	RRSE	Media Evaluated	Phase(s) Completed	Phase(s) Underway	Phase(s) Future	# IRA Completed	# IRA Underway	# IRA Future	LTM Status	RIP Date	RC Date
JAAP-L33	3A	SL	PA SI RI			0	0	0			199412
JAAP-L34	0A		PA SI RI			0	0	0			199412
JAAP-L35	0A		PA SI RI			0	0	0			199412

Remediation Activities

COMPLETED REM/IRA/RA:

- IRA - Red Water Lagoon 1984
- RA - UST removals 1989-1994
- REM - PCB Electric Switch Boxes 1996
- IRA - Fence IRP UXO Areas (L2, L3) 1996
- RA - Group 70 Motor Pool (L6) 1997
- IRA - Ash Pile Caps (2) 1985
- IRA - Ash Pile Cap Repairs 1993
- REM - PCB Waste Oil Pits and associated UXO removal (L2) 1996
- IRA - Install Geo-membrane (SA1) 1996
- IRA - Ash Pile Cap Replacement (M1) 1999
- IRA - Ash Pile Leachate Control System (M9) 1999
- RA - GW monitoring well closure (update sites) 1999
- Bioremediation facility construction completed 1999
- Tetryl Production Area (M5) Soil Excavation completed 2000
- L1, L7, L8, L9, L10, L17, L17 PCB-contaminated soil excavated & disposal completed 2000
- RA - Red Water Area (M7) 2001
- RA - Test Site (L11) 2002
- RA - Group 6 (L16) 2002

CURRENT REM/IRA/RA:

- 001, 005, 006, 007, 008, 013, 010, 0L1, 0L2, 0L3, L14 Groundwater remedy (monitored natural attenuation) initiated and underway
- Continue excavation of explosives-contaminated soil from JAAP-006.

FUTURE REM/IRA/RA:

- See CTC Table

RESTORATION ADVISORY BOARD (RAB) STATUS

Community involvement was initiated with the Technical Review Committee (TRC) that began in July 1988, after the Manufacturing Area was placed on the NPL. The TRC was replaced with a Restoration Advisory Board (RAB) that began in December 1995 and met monthly until June 1999. The group now meets every other month.

The mission of the RAB is to represent the community by facilitating communications and coordination between the community and the appropriate government agencies in the environmental cleanup of the JOAAP; to critically review and comment on pertinent environmental cleanup documents; to make recommendations to the U.S. Army and other appropriate governmental agencies regarding cleanup methods and priorities; and to encourage public participation in accomplishing these goals.

Past meeting activities have included several installation tours, media (radio, television, newspaper) open house, special training events, and guest speakers. Individual RAB members have participated in the first IAP workshop, Region V RAB forum, DERP workshops, public speaking engagements, and radio and newspaper interviews. In addition, local and regional newspapers cover the RAB meetings.

The RAB Community Co-Chair generates annual reports which are distributed up to the chain of command to the Office of the Secretary of Defense.

Currently, several RAB members are participating in ecological and human health workgroups formed to finalize interim ROD issues.